Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads drains at Srinivasapura Village in ward No.01 of Yelahanka Sub Division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing and Resetting of **Footpath Slab (Approved Rate)**								
	Approved Basic Rate	235.00							
	Area Weightage 10%	23.50							
	Total Rate	**258.50**							
	HP Petrol Bunk Backside	2	195.00	0.90		351.00			
	Main Rd	1	160.00	0.90		144.00			
						495.00			
	Deduct 30% of Slabs					148.50			
						346.50	**Sqm**	**258.50**	**89,570.25**
2	Earth work **excavation by manual means for drains**,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum.(Tipper 5.5 m3) (V-I.No 1.4,Page No-5 PWD SR 2021-22) & (V-III Page No.3, Item No.1.1 A of PWD SR 2021-22)								
	Basic Rate	186.00							
	Loading And Unloading	118.00							
	Sub Total	304.00							
	Area Weightage 10%	30.40							
	Total Rate	**334.40**							
	RCC Drain								
	Srinivaspura								
	1st Cross Rd	1	79.00	1.10	1.00	86.90			
	2nd Cross Rd	1	33.00	1.10	1.00	36.30			
	3rd Cross Rd	1	49.00	1.10	1.00	53.90			
	Drain Desilt								
	HP Petrol Bunk Backside	2	195.00	0.60	0.30	70.20			
	Main Rd	1	160.00	0.60	0.30	28.80			
						276.10	**Cum**	**334.40**	**92,327.84**
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 40 mm** nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)(Issue rate on 07-07-22)								
	Basic Rate	**5554.00**							
	Area Weightage 10%	**555.40**							

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Total Rate	**6109.40**							
	RCC Drain								
	Srinivaspura								
	1st Cross Rd	1	79.00	1.10	0.15	13.04			
	2nd Cross Rd	1	33.00	1.10	0.15	5.45			
	3rd Cross Rd	1	49.00	1.10	0.15	8.09			
	CC Road								
	Srinivaspura								
	2nd Cross Rd	1	35.00	5.50	0.15	28.88			
	3rd Cross Rd	1	50.00	5.00	0.15	37.50			
	Main Rd	1	183.00	5.30	0.15	145.49			
						238.43	**Cum**	**6109.40**	**1456633.70**
4	Supplying, **Fitting and Placing un-coated TMT bar** Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) (Issue rate on 07-07-22)								
	Basic Rate	**92170.00**							
	Area Weightage 10%	**9217.00**							
	Total Rate	**101387.00**							
	For RCC Drain, 60kg/Cum	1	50.72	60.00		3042.90			
						3042.90			
						3.04	**Tn**	**101387.00**	**308510.50**
5	Providing and laying in position **Reinforced cement concrete** for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M20 Design Mix Using 20 mm** nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22) Apendx I, V-I P.No-115)(Issue rate on 07-07-22)								
	Basic Rate	**5968.00**							
	5% Centring	**298.40**							
	Sub Total	**6266.40**							
	Area Weightage 10%	**626.64**							
	Total Rate	**6893.04**							
	RCC Drain Raft								
	Srinivaspura								
	1st Cross Rd	1	79.00	0.90	0.15	10.67			
	2nd Cross Rd	1	33.00	0.90	0.15	4.46			
	3rd Cross Rd	1	49.00	0.90	0.15	6.62			
	RCC Drain Wall								
	Srinivaspura								
	1st Cross Rd	2	79.00	0.15	0.60	14.22			
	2nd Cross Rd	2	33.00	0.15	0.60	5.94			
	3rd Cross Rd	2	49.00	0.15	0.60	8.82			
						50.72			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						50.72	Cum	6893.04	349580.52
6	Providing and fixing precast reinforced cement concrete **covering slabs of 10Cm thick** made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)								
	Basic Data Rate	**2072.00**							
	Srinivaspura								
	1st Cross Rd	1	79.00	0.90		71.10			
	2nd Cross Rd	1	33.00	0.90		29.70			
	3rd Cross Rd	1	49.00	0.90		44.10			
	Damge/Missing Slabs from item no-01					148.50			
						293.40	**Sqm**	**2072.00**	**607924.80**
7	Providing and laying in position **plain cement concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **Mix 1:3:6 (M10) Using 20 mm** nominal size graded crushed coarse aggregates (V-I, I.No-2.1.4, P.No-15 of PWD SR 2021-22). (Issue rate on 07-04-22)								
	Basic rate	**5728.00**							
	Area Weightage 10%	**572.80**							
	Total	**6300.80**							
	For Kerb								
	Srinivaspura								
	Main Rd	2	161.00	0.20	0.10	6.44			
	HP Petrol Bunk Backside	2	194.00	0.20	0.10	7.76			
						14.20	**Cum**	**6300.80**	**89,471.36**
8	Providing and fixing pre cast solid cement concrete **kerb stones** made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges) Data Rate								
	Data Rate	**507.00**							
	For Kerb								
	Srinivaspura								
	Main Rd	2	161.00			322.00			
	HP Petrol Bunk Backside	2	194.00			388.00			
						710.00			
						1578.00	**Nos**	**507.00**	**800046.00**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III, P.No.56, I.No.8.10 of PW, PWD SR 2021-22)								
	Basic rate	**85.00**							
	Area Weightage 10%	**8.5**							
	Total	**93.50**							
	For Kerb								
	Srinivaspura								
	Main Rd	2	161.00		0.35	112.70			
	HP Petrol Bunk Backside	2	194.00		0.35	135.80			
						248.50	**Sqm**	**93.50**	**23,234.75**
10	Earth work in surface **excavation by mechanical means** for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22)								
	Basic Rate	**65.00**							
	Area Weightage 10%	**6.50**							
	Total Rate	**71.50**							
	Asphalt Road								
	Srinivaspura								
	HP Petrol Bunk Back Side	1	206.00	5.80	0.30	358.44			
	CC Road								
	Srinivaspura								
	2nd Cross Rd	1	35.00	5.50	0.30	57.75			
	3rd Cross Rd	1	50.00	5.00	0.30	75.00			
	Main Rd	1	183.00	5.30	0.30	290.97			
						782.16	**Cum**	**71.50**	**55,924.44**
11	Construction of **Granular Sub-Base of** required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 .(V-III, I No-4.1V,P No-19,KPWD SR 2021-22)								
	Basic Rate	**2347.00**							
	Area Weightage 10%	**234.70**							
	Total Rate	**2581.70**							
	Asphalt Road								
	Srinivaspura								
	HP Petrol Bunk Back Side	1	206.00	5.80	0.15	179.22			
	CC Road								
	Srinivaspura								
	2nd Cross Rd	1	35.00	5.50	0.15	28.88			
	3rd Cross Rd	1	50.00	5.00	0.15	37.50			
	Main Rd	1	183.00	5.30	0.15	145.49			
						391.08	**Cum**	**2581.70**	**1009651.24**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III, P.No-24,I No-4.27A)of PWD SR 2021-22).								
	Basic Rate	**2394.00**							
	Area Weightage 10%	**239.40**							
	Total Rate	**2633.40**							
	Asphalt Road								
	Srinivaspura								
	HP Petrol Bunk Back Side	1	206.00	5.80	0.223	266.44			
						266.44	**Cum**	**2633.40**	**701644.15**
13	Providing and applying **primer coat** with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III, P.No-29,I No-5.1(i) of PWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**42.00**							
	Area Weightage 10%	**4.20**							
	Total Rate	**46.20**							
	Asphalt Road								
	Srinivaspura								
	HP Petrol Bunk Back Side	1	206.00	5.80		1194.80			
						1194.80	**Sqm**	**46.20**	**55,199.76**
14	Providing and applying **tack coat** with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-145,I No-21A-3 of PWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**12.00**							
	Area Weightage 10%	**1.20**							
	Total Rate	**13.20**							
	Asphalt Road								
	Srinivaspura								
	HP Petrol Bunk Back Side	1	206.00	5.80		1194.80			
						1194.80	**Sqm**	**13.20**	**15,771.36**
15	Providing and laying **Dense Graded Bituminous Macadam** with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. (V-III, P.No-33,I No-5.12C of PWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**9139.00**							
	Area Weightage 10%	**913.90**							
	Total Rate	**10052.90**							
	Asphalt Road								
	Srinivaspura								
	HP Petrol Bunk Back Side	1	206.00	5.80	0.05	59.74			
						59.74	**Cum**	**10052.90**	**600560.25**

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
16	Providing and laying **Bituminous Concrete with 40/60 TPH** capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.36, I.No.5.16C of PWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**10611.00**							
	Area Weightage 10%	**1061.10**							
	Total Rate	**11672.10**							
	Asphalt Road								
	Srinivaspura								
	HP Petrol Bunk Back Side	1	206.00	5.80	0.04	47.79			
						47.79	**Cum**	**11672.10**	**557833.00**
17	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 **M30 (Grade)**, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.(V-III, P.No-138,I No-20.29, KPWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**6512.00**							
	Area Weightage 10%	**651.20**							
	Total Rate	**7163.20**							
	CC Road								
	Srinivaspura								
	2nd Cross Rd	1	35.00	5.50	0.15	28.88			
	3rd Cross Rd	1	50.00	5.00	0.15	37.50			
	Main Rd	1	183.00	5.30	0.15	145.49			
						211.86	**Cum**	**7163.20**	**1517595.55**
18	**Cost of Haulage Excluding Loading** and Unloading Taking output 10 t load and lead 10 km = 100 t.km(V-III Page No.3, Item No.1.4A of PWD SR 2021-22)								
	Basic Rate	**12.00**							
	8KM Lead = 12*8	**96.00**							
	Area Weightage 10%	**9.60**							
	Total Rate	**105.60**							
	Qty frm Item No-2		276.1	1.28		353.41			
	Qty frm Item No-10		782.2	1.28		1001.16			
						1354.57	**t.Km**	**105.60**	**143042.89**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								Total Construction Cost	8474522.36
								18% GST for Construction Cost	1525414.02
								Sub Total	9999936.38
								Utility Shifting,Miscellaneous and Rounding off	63.62
								GRAND TOTAL	10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2021-2022, issue rates dated 07-07-2022 and Data Rates

Assistant Engineer
Ward No-01
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Sanction for Rs. ...100.00 Lakh.
[One Crore Rupees Only]
is accorded under head ...P-2178...
...Deputy Mayor Grants.
Registered as CE No. ...41... Subject
to conditions contained in enclosed ... No
No.BBMP/EE/YNK-D/AS/41/2022-23 26/12/202

Executive Engineer

Technical Sanction
Accorded For ...100.00 Lakh
Head of A/C ...P-2178...
CER NO :...168... Dt:19/9/2022